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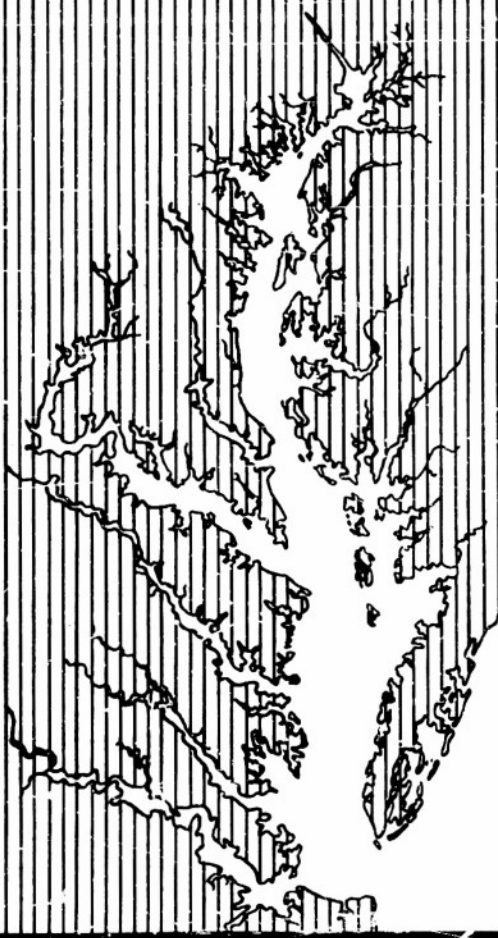
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THE CHESAPEAKE BAY INSTITUTE of The Johns Hopkins University



DATA REPORT 21
PATUXENT RIVER AUTUMN CRUISE
15 September + 22 September 1952

Reference 54-8
October 1954

CHESAPEAKE BAY INSTITUTE
THE JOHNS HOPKINS UNIVERSITY

DATA REPORT 21

PATUXENT RIVER AUTUMN CRUISE
15 Sept - 22 Sept 1952

This report contains results of work carried out for: the Office of Naval Research of the Navy Department under research project NR 083-016, Contract Nonr 248(20), and research project NR 083-070, Contract Nonr 248(30); the State of Maryland (Department of Research and Education); and the Commonwealth of Virginia (Virginia Fisheries Laboratory).

The presentation of data in this report does not constitute publication and the information may be subject to modification at a later date.

October 1954
Reference-8

D. W. Pritchard
Director

The data presented in this report were collected in the Patuxent River during the period 15 September to 22 September 1952.

The purpose of this cruise was to study the physical and chemical structure of the area in the autumn season.

Location of Stations

An arbitrary line designating the mouth of the river was chosen from Little Cove Point to Cedar Point. The stations were chosen upstream from this line in the deepest part of the channel. The station designators consist of the letters PX followed by the numerals representing the number of nautical miles to the nearest mile upstream from the mouth of the river. Thus PX-21 is the station 21 miles upstream from the line designating the mouth of the river.

Station	North Latitude	West Longitude
PX-2	38°19'00"	76°25'15"
PX-4	38°18'33"	76°27'26"
PX-8	38°21'48"	76°29'48"
PX-12	38°25'50"	76°33'30"
PX-16	38°26'23"	76°37'38"
PX-21	38°30'38"	76°40'25"
PX-23	38°33'08"	76°40'20"
PX-26	38°36'10"	76°40'23"
PX-29	38°39'31"	76°41'00"

Observations

Current speed and direction were measured with the confined submerged drags described in "An Inexpensive and Rapid Technique for Obtaining Current Profiles in Estuarine Waters." by D. W. Pritchard and W. V. Burt. J. Mar. Res. V. 10, No. 2, 1951.

Temperature and salinity were determined by means of the Conductivity-Temperature Indicator (CTI). This is an instrument in which a nickel resistance thermometer and a conductivity cell have been combined to provide direct continuous readings of water temperature and conductivity. The sensing elements

are located in a single under water unit that can be lowered and raised on a two hundred and fifty foot cable. Two four-digit counters in portable units can be conveniently located on deck or in the ship's laboratory. Direct reading of temperature can be obtained in the range - 2.00°C to 32.00°C from one of the counters. Calibration of the thermal unit indicates that readings are within ± 0.05 of the true temperature. Direct conductivity readings in the range 0 to 50.00 millimhos can be obtained from the second counter. Salinity is obtained from the temperature and conductivity data with the aid of curves plotted from accepted functions of the three parameters. Field calibrations have been made by comparing data from the CTD with titrated values of chlorinity and temperatures from mercury thermometers. A calibration tank is being constructed which will allow simultaneous calibration of the thermal and conductivity units.

Oxygen was determined by the Winkler titration method.

pH was determined with a Beckman pH meter.

Inorganic phosphate analyses were made by the ceriumomolybdate method using stannous chloride as the reducing agent. All samples were centrifuged with a Foerst Centrifuge prior to analysis. Sample size was 50 ml. Within 10 to 20 minutes after addition of the stannous chloride, the transmission of the sample at a wave length of 700 m μ was measured using a Beckman Model DU Spectrophotometer or a Scripps Automatic Servo-Operated Photometer. Measurements were calibrated against standard KH_2PO_4 reference solutions. Analyses for inorganic phosphate were made on shipboard within two hours after the samples were drawn. No salt correction has been applied. An estimate of the precision of the method from triplicate analyses indicated deviations of $\pm 10\%$ of the reported values.

The turbidity was determined with a Beckman Model DU Spectrophotometer by measuring the transmission through a 10 cm cell containing the sample at the indicated wave lengths. In order to minimize the interference by settling, samples

for these analyses were drawn from the Nansen bottles or pumped samples immediately after they reached the deck laboratory. The results are expressed as extinction for each wave length.

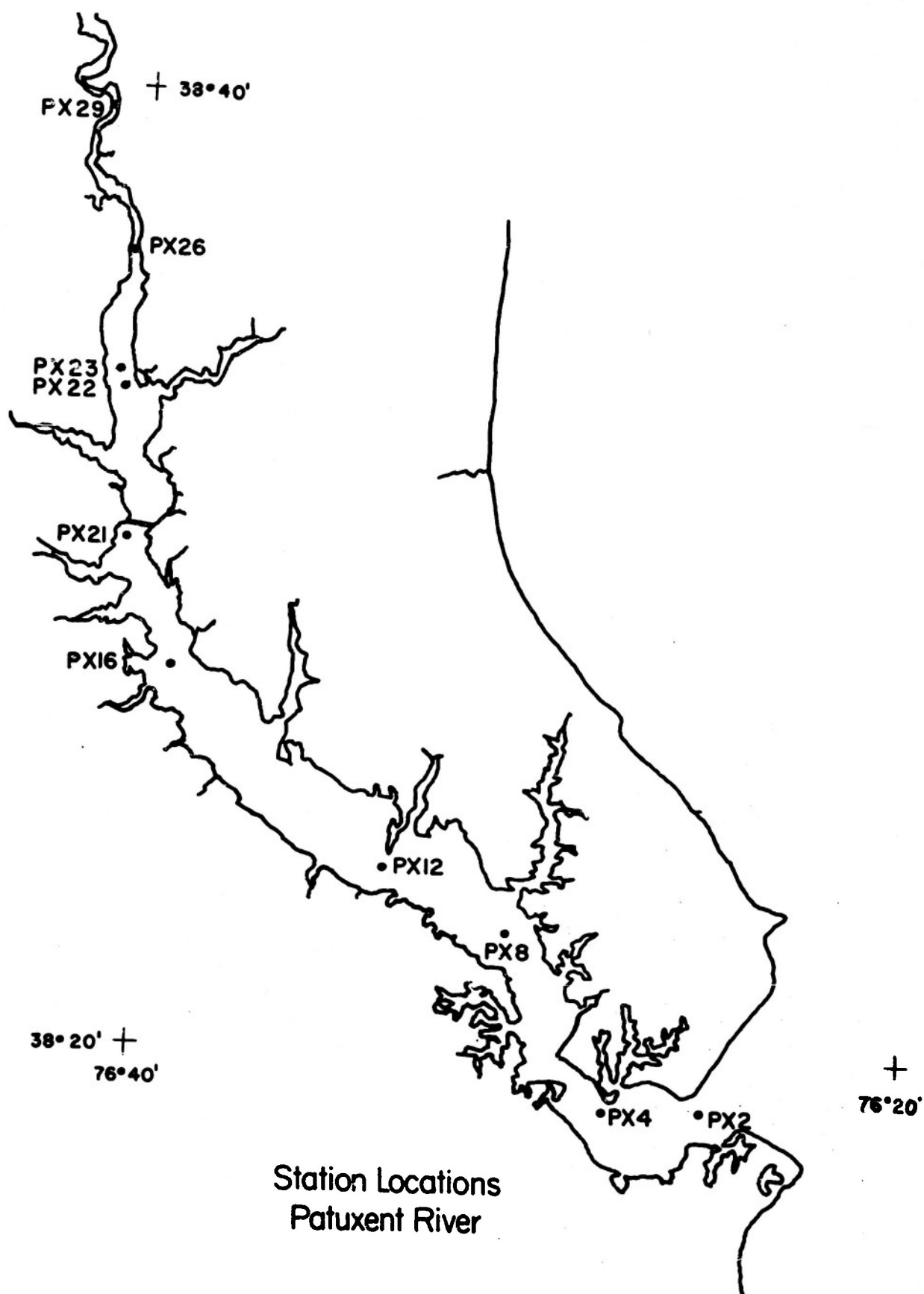
The chlorophyll analyses were made by a method developed at the Chesapeake Bay Institute. This method consists of running a one liter sample through a Foerst Continuous Centrifuge in 15-18 minutes. The collected material is transferred to a 40 ml centrifuge tube with a rubber policeman and the cup rinsed with distilled water several times. The material is centrifuged and the supernatant decanted. Methyl alcohol is added and the sample is placed in the dark at room temperature for four to eight hours. After this time the sample is made up to 40 ml, the solids are centrifuged out, and the percent transmission of the supernatant fluid is determined at 500, 625, 635, 667, and 750 $m\mu$. The results have been corrected for background scattering and absorption by small particles and expressed as mygrams (10^{-6} grams) per liter.

Alkalinity was determined by the method found in "Rapid Electrometric Determination of the Alkalinity of Sea Water" by D. H. Anderson and R. J. Robinson, (1946), Industrial and Engineering Chemistry, Analytical Edition, Volume 18, No 12, 1946.

Weather is reported in the following code:

<u>Code</u>	<u>Description</u>
00	Cloudless (from no clouds up to 1/10 coverage)
01	Partly cloudy (from 1/10 to 5/10)
02	Cloudy (over 5/10 up to 9/10)
03	Overcast (over 9/10)
04	Low fog, on ground or at sea
05	Haze
07	Distant lightning
10	Precipitation within sight
11	Thunder, without precipitation
13	Squally weather

<u>Code</u>	<u>Description</u>
16	Waterspout seen
19	Signs of tropical storm
40	Fog
49	Fog in patches
51	Intermittent drizzle
52	Continuous drizzle
57	Drizzle and fog
58	Drizzle and rain, mixed
61	Intermittent rain
62	Continuous rain
67	Rain and fog
69	Rain and snow, mixed
71	Intermittent snow (in flakes)
72	Continuous snow (in flakes)
77	Snow and fog
78	Frozen drizzle (grains of snow)
79	Ice crystals or frozen rain drops
81	Rain showers
83	Snow showers
88	Hail, or rain and hail showers
93	Thunderstorm, with rain (or snow) but without hail
94	Thunderstorm, with hail
97	Heavy thunderstorm



Section A
Salinity, Temperature, Current and Meteorological Data

PX-2 22 Sept 52		0709 EST Depth 61'	Weather 03 Wind ENE-3 Air 19.2°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	22.44	13.68	062	0.31
5	22.51	13.71	055	0.31
10	22.58	13.70	044	0.29
15	22.53	13.74	039	0.45
20	22.68	13.76	043	0.45
25	22.84	13.87	038	0.35
30	22.86	13.92	355	0.41
35	22.95	13.92	033	0.41
40	23.13	14.01	018	0.41
45	23.26	14.64	023	0.59
50	23.38	15.22	013	0.93
55	23.30	16.43	015	0.77
58	23.10	18.44	003	0.65

PX-2 22 Sept 52		0900 EST Depth 60'	Weather 03 Wind ENE-4 Air 19.7°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	22.68	13.67	073	0.26
5	22.69	13.67	011	0.26
10	22.70	13.67	079	0.41
15	22.70	13.67	078	0.26
20	22.72	13.67	045	0.26
25	22.72	13.68	046	0.26
30	22.74	13.68	058	0.29
35	22.81	13.80	031	0.31
40	22.98	14.22	058	0.38
45	23.42	15.29	053	0.36
50	23.45	16.15	027	0.41
55	23.24	17.47	358	0.29
57	23.21	17.98	358	0.18

PX-2 22 Sept 52		0800 EST Depth 60'	Weather 03 Wind ENE-4 Air 19.4°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	22.69	13.70	062	0.22
5	22.69	13.68	033	0.29
10	22.69	13.68	041	0.26
15	22.68	13.69	076	0.38
20	22.67	13.70	079	0.34
25	22.69	13.70	045	0.41
30	22.67	13.71	061	0.38
35	22.67	13.71	051	0.34
40	22.68	13.71	068	0.45
45	23.20	14.52	043	0.41
50	23.36	15.24	041	0.52
55	23.24	17.01	048	0.52
57	23.15	17.95	043	0.50

PX-2 22 Sept 52		1006 EST Depth 60'	Weather 03 Wind ENE-4 Air 19.4°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	22.70	13.75	281	0.14
5	22.70	13.75	347	0.09
10	22.69	13.76	328	0.15
15	22.69	13.78	015	0.12
20	22.69	14.18	355	0.09
25	22.69	14.18	081	0.14
30	22.74	14.21	356	0.15
35	23.00	14.24	081	0.31
40	23.45	14.53	073	0.26
45	23.45	14.86	036	0.48
50	23.24	15.37	053	0.26
55	23.22	15.39	337	0.22
57	23.11	15.43	357	0.22

PX-2 22 Sept 52		1108 EST Depth 60'	Weather 03 Wind ENE-3 Air 19.4°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	22.73	13.91	257	0.15
5	22.73	13.95	256	0.17
10	22.74	13.95	247	0.20
15	22.79	14.00	235	0.23
20	22.90	14.01	248	0.21
25	22.75	14.02	248	0.20
30	22.76	14.10	246	0.17
35	23.33	14.77	0	0.00
40	23.45	15.47	021	0.11
45	23.33	16.02	268	0.17
50	23.32	16.09	238	0.26
55	23.24	16.35	238	0.28
57	23.24	16.30	226	0.27

PX-2 22 Sept 52		1313 EST Depth 45'	Weather 62 Wind NE-5 Air 18.9°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	22.67	13.89	226	1.14
5	22.67	13.89	226	0.93
10	22.70	13.91	218	0.88
15	22.74	13.95	228	0.88
20	22.89	14.11	243	0.70
25	23.01	14.19	288	1.14
30	23.54	15.33	263	0.97
35	23.55	15.89	262	0.59
40	23.53	16.17	263	0.59
42½	23.52	16.38	263	0.59

PX-2 22 Sept 52		1203 EST Depth 60'	Weather 62 Wind ENE-3 Air 19.4°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	22.35	13.77	251	0.29
5	22.39	13.80	251	0.28
10	22.47	13.84	246	0.48
15	22.51	13.86	250	0.46
20	22.50	13.87	253	0.50
25	22.50	13.98	251	0.57
30	22.89	14.41	247	0.52
35	23.42	15.00	245	0.52
40	23.39	15.53	243	0.50
45	23.36	15.70	262	0.45
50	23.32	15.75	251	0.45
55	23.25	16.02	244	0.43
58	23.24	16.11	--	--

PX-2 22 Sept 52		1404 EST Depth 47'	Weather 51 Wind NE-6 Air 18.3°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	22.68	13.93	261	1.18
5	22.67	13.93	261	0.97
10	22.66	13.94	257	0.93
15	22.69	13.94	206	0.70
20	22.68	13.95	208	0.59
25	22.83	14.00	263	0.88
30	23.43	14.75	263	1.02
35	23.55	15.34	263	1.06
40	23.55	15.70	213	0.51
45	23.53	16.05	231	0.41

PX-2 22 Sept 52		1503 EST Depth 48'	Weather 62 Wind NE-6 Air 18.3°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	22.67	13.94	213	0.78
5	22.67	13.94	218	0.81
10	22.69	13.94	213	0.67
15	22.72	13.95	203	0.70
20	22.76	14.00	213	0.76
25	22.86	14.05	213	0.78
30	23.53	14.88	223	0.53
35	23.55	15.35	223	0.28
40	23.53	15.73	218	0.28
45	23.53	15.91	223	0.20
48	23.53	16.12	--	--

PX-2		1704 EST	Weather -	
22 Sept 52		Depth -	Wind -	
			Air -	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	22.58	13.95	--	--
5	22.61	13.97	--	--
10	22.62	14.00	--	--
15	22.61	13.97	--	--
20	22.64	14.06	--	--
25	22.84	14.22	--	--
30	22.77	14.45	--	--
35	23.22	14.73	--	--
40	23.38	14.88	--	--
45	23.53	15.20	--	--
48	23.59	15.35	--	--

PX-2 22 Sept 52		1603 EST Depth -	Weather - Wind - Air -	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	22.65	13.97	--	--
5	22.66	13.96	--	--
10	22.66	13.96	--	--
15	22.66	13.96	--	--
20	22.67	13.96	--	--
25	22.72	13.97	--	--
30	23.04	14.40	--	--
35	23.50	14.88	--	--
40	23.61	15.45	--	--
45	23.61	15.94	--	--
48	23.61	16.12	--	--

PX-4 18 Sept 52		1800 EST Depth 54'	Weather 13 Wind S-3 Air 25.6°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.99	12.63	--	--
5	24.99	12.63	--	--
10	25.00	12.63	128	0.61
15	24.56	13.81	125	0.55
20	24.50	14.23	125	0.55
25	24.37	14.71	123	0.53
30	24.41	15.14	118	0.57
35	24.31	16.08	--	--
40	24.30	16.29	122	0.61
45	24.27	16.66	--	--
49	24.24	16.86	--	--
50	--	--	127	0.29

PX-4 18 Sept 52		2000 EST Depth 50'	Weather 01 Wind S-4 Air 25.6°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	25.00	12.64	--	--
5	25.00	12.64	--	--
10	25.02	12.65	125	0.58
15	24.88	13.14	159	0.77
20	24.63	13.88	161	0.65
25	24.46	14.67	0	0.00
30	24.38	15.70	0	0.00
35	24.34	16.12	0	0.00
40	24.27	16.71	0	0.00
45	24.24	16.96	272	0.41
48	24.24	16.99	272	0.41
50	--	--	--	--

PX-4 18 Sept 52		1900 EST Depth 50'	Weather 13 Wind S-4 Air 25.6°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	25.05	12.53	--	--
5	25.04	12.53	--	--
10	25.02	12.58	137	0.58
15	24.64	13.67	138	0.69
20	24.60	13.75	132	0.65
25	24.48	14.60	121	0.65
30	24.38	15.79	130	0.82
35	24.34	16.12	130	0.77
40	24.29	16.61	123	0.41
45	24.26	16.94	0	0.00
48	24.25	16.98	--	--
50	--	--	0	0.00

PX-4 18 Sept 52		2104 EST Depth 50'	Weather 01 Wind S-4 Air 25.6°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	25.15	12.63	--	--
5	25.15	12.87	--	--
10	25.08	13.03	211	0.34
15	24.53	13.76	0	0.00
20	24.48	14.01	0	0.00
25	24.43	14.58	263	0.52
30	24.29	15.59	286	0.39
35	24.29	15.90	292	0.44
40	24.24	16.46	0	0.00
45	24.23	16.57	283	0.47
50	24.20	16.73	278	0.66
54	--	--	264	0.47

PX-4 18 Sept 52		2205 EST Depth 50'	Weather 01 Wind SW-4 Air 25.6°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.79	12.73	261	0.44
5	24.79	12.73	257	0.52
10	24.77	12.79	235	0.44
15	24.69	12.89	248	0.59
20	24.54	13.37	248	0.69
25	24.35	14.09	--	--
30	24.25	14.70	270	0.90
35	24.14	15.89	--	--
40	24.12	16.28	283	0.74
45	24.11	16.33	--	--
50	24.11	16.35	280	0.77

PX-4 19 Sept 52		0000 EST Depth 50'	Weather 01 Wind SW-4 Air -	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.61	13.01	--	--
5	24.63	13.01	--	--
10	24.61	13.04	268	0.50
15	24.58	13.07	268	0.34
20	24.57	13.11	289	0.53
25	24.54	13.20	264	0.65
30	24.52	13.34	271	0.82
35	24.39	13.89	--	--
40	24.13	16.01	268	0.41
45	24.09	16.50	--	--
50	24.10	16.49	267	0.41

PX-4 18 Sept 52		2300 EST Depth 56'	Weather 01 Wind SW-4 Air 25.6°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.65	12.90	--	--
5	24.67	12.90	--	--
10	24.67	12.91	295	0.39
15	24.67	12.93	333	0.34
20	24.67	12.94	0	0.00
25	24.63	13.21	259	0.59
30	24.54	13.39	262	0.85
35	24.50	13.77	--	--
40	24.26	15.09	268	0.97
45	24.24	15.53	--	--
50	24.14	15.59	--	--

PX-4 19 Sept 52		0100 EST Depth 50'	Weather 01 Wind SW-7 Air 26.1°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.54	13.19	--	--
5	24.55	13.19	--	--
10	24.55	13.19	277	0.61
15	24.55	13.19	293	0.36
20	24.50	13.27	303	0.22
25	24.48	13.37	0	0.00
30	24.22	15.22	021	0.29
35	24.20	15.48	--	--
40	24.10	16.33	263	0.26
45	24.01	16.76	--	--
49	24.01	17.18	--	--
50	--	--	275	0.38

PX-4 19 Sept 52		0200 EST Depth 51'	Weather 02 Wind SW-7 Air 25.0°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.51	13.30	--	--
5	24.51	13.30	--	--
10	24.49	13.32	204	0.29
15	24.50	13.40	121	0.29
20	24.44	13.71	119	0.29
25	24.26	14.85	178	0.18
30	24.21	15.23	0	0.00
35	24.19	15.38	--	--
40	24.16	15.67	0	0.00
45	24.12	16.04	--	--
50	24.09	16.53	204	0.22

PX-4 19 Sept 52		0400 EST Depth 50'	Weather 02 Wind SW-5 Air 24.4°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.52	13.06	--	--
5	24.52	13.05	--	--
10	24.52	13.04	143	0.67
15	24.25	13.47	145	0.73
20	24.60	14.5*	144	0.61
25	24.16	14.95	132	0.53
30	24.22	15.11	157	0.45
35	24.19	15.32	--	--
40	24.13	15.74	187	0.22
45	24.08	16.26	--	--
50	23.99	17.90	0	0.00

PX-4 19 Sept 52		0300 EST Depth 51'	Weather 02 Wind SW-7 Air 24.4°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.56	13.03	--	--
5	24.57	13.02	--	--
10	24.57	13.03	130	0.34
15	24.43	14.12	135	0.53
20	24.36	14.43	131	0.53
25	24.28	14.61	119	0.50
30	24.26	14.67	262	0.18
35	24.19	14.96	--	--
40	24.08	15.64	302	0.29
45	24.03	16.12	--	--
48	23.99	16.31	--	--
50	--	--	301	0.22

PX-4 19 Sept 52		0500 EST Depth 51'	Weather 02 Wind SW-7 Air 25.0°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.50	13.12	--	--
5	24.48	13.12	--	--
10	24.47	13.13	146	0.75
15	24.35	14.19	148	0.64
20	24.27	14.92	104	0.64
25	24.16	15.51	103	0.61
30	24.16	15.52	108	0.64
35	24.13	16.11	--	--
40	24.07	16.36	109	0.60
45	24.08	17.26	--	--
50	24.00	17.75	0	0.00

PX-4 19 Sept 52		0600 EST Depth 52'	Weather 02 Wind SSW-2 Air 24.4°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.44	13.19	065	0.61
5	24.45	13.18	120	0.55
10	24.36	14.51	151	0.61
15	24.26	15.35	155	0.61
20	24.21	15.61	158	0.64
25	24.16	16.09	163	0.60
30	24.16	16.16	163	0.41
35	24.17	16.28	097	0.52
40	24.14	16.51	076	0.26
45	24.08	17.15	073	0.22
50	--	--	069	0.22
52	23.87	17.51	--	--

PX-4 19 Sept 52		0800 EST Depth 54'	Weather 51 Wind SW-2 Wind SW-2	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.34	13.23	090	0.95
5	24.33	13.26	142	0.90
10	24.32	13.30	142	0.97
15	24.35	14.11	159	0.77
20	24.26	15.09	150	0.52
25	24.08	16.66	137	0.44
30	24.05	16.98	127	0.39
35	24.03	17.01	117	0.39
40	24.02	17.17	0	0.00
45	23.98	17.67	0	0.00
50	23.93	18.17	0	0.00

PX-4 19 Sept 52		0700 EST Depth 54'	Weather 02 Wind SW-2 Air 24.4°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.37	13.11	060	0.41
5	24.37	13.11	153	0.53
10	24.36	13.13	153	0.64
15	24.36	14.37	151	0.76
20	24.09	15.67	153	0.77
25	24.02	16.55	153	0.47
30	24.02	16.54	160	0.47
35	23.95	17.21	155	0.47
40	23.90	17.42	150	0.34
45	23.89	17.66	0	0.00
50	23.86	18.02	0	0.00

PX-4 19 Sept 52		0900 EST Depth 54'	Weather 51 Wind SSW-2 Air 23.3°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.36	13.24	113	0.90
5	24.36	13.26	160	0.92
10	24.33	13.64	165	0.69
15	24.25	14.61	183	0.39
20	24.12	16.43	158	0.19
25	24.10	16.53	233	0.12
30	24.10	16.62	0	0.00
35	24.07	16.76	280	0.14
40	24.01	17.29	282	0.21
45	23.97	17.56	278	0.27
50	23.97	17.81	282	0.34

PX-4 19 Sept 52		1000 EST Depth 54'	Weather 51 Wind SW-2 Air 22.8°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.37	13.02	0	0.00
5	24.37	13.02	243	0.12
10	24.34	13.10	165	0.28
15	24.31	13.61	231	0.27
20	24.25	14.65	340	0.28
25	24.08	16.53	257	0.40
30	24.05	16.80	271	0.41
35	24.03	16.97	287	0.41
40	24.01	17.26	294	0.31
45	23.99	17.52	278	0.36
50	23.96	17.80	--	--

PX-4 19 Sept 52		1200 EST Depth 51'	Weather 02 Wind SW-3 Air 25.6°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.36	13.41	--	--
5	24.36	13.42	--	--
10	24.33	13.95	247	0.56
15	24.25	14.74	258	0.56
20	24.20	15.33	259	0.56
25	24.17	15.52	259	0.69
30	24.17	15.70	258	0.77
35	24.14	15.90	--	--
40	24.14	16.10	259	0.80
45	24.08	16.31	--	--
49	24.07	16.79	--	--
50	--	--	258	0.34

PX-4 19 Sept 52		1100 EST Depth 50'	Weather 51 Wind SW-1 Air 26.7°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.39	13.87	0	0.00
5	24.33	13.90	211	0.39
10	24.30	14.12	238	0.44
15	24.31	14.39	243	0.34
20	24.20	15.85	273	0.85
25	24.13	16.51	283	0.80
30	24.09	16.96	285	0.77
35	24.07	17.20	288	0.77
40	24.02	17.78	285	0.62
45	23.99	18.28	260	0.56
48	23.98	18.45	--	--

PX-4 19 Sept 52		1300 EST Depth 51'	Weather 03 Wind NW-5 Air 21.7°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.42	13.77	--	--
5	24.42	13.84	293	0.66
10	24.34	14.69	302	0.77
15	24.32	14.91	301	0.82
20	24.28	15.41	299	0.82
25	24.25	15.46	295	0.82
30	24.25	15.46	--	--
35	24.24	15.64	--	--
40	24.23	15.75	288	0.44
45	24.22	15.75	--	--
50	24.19	16.28	290	0.34

PX-4 19 Sept 52		1400 EST Depth 51'	Weather 61 Wind NNE-3 Air 19.4°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.38	13.73	227	0.52
5	24.39	13.85	247	0.59
10	24.34	14.48	267	0.56
15	24.27	15.27	286	0.44
20	24.26	15.42	297	0.34
25	24.26	15.43	295	0.34
30	24.26	15.43	306	0.39
35	24.25	15.58	--	--
40	24.22	15.89	307	0.28
45	24.18	16.67	--	--
50	23.95	19.01	307	0.20

PX-4 19 Sept 52		1600 EST Depth 51'	Weather 02 Wind 0 Air 22.8°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.32	13.52	153	0.69
5	24.36	13.61	139	0.71
10	24.37	13.66	139	0.82
15	24.36	14.39	138	0.80
20	24.29	14.91	137	0.56
25	24.27	14.96	135	0.56
30	24.23	15.52	132	0.44
35	24.20	15.80	--	--
40	24.13	16.33	131	0.44
45	24.10	16.91	--	--
50	24.01	18.11	132	0.52

PX-4 19 Sept 52		1500 EST Depth 51'	Weather 02 Wind 0 Air 20.6°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.33	13.99	230	0.41
5	24.35	14.18	252	0.45
10	24.29	14.80	250	0.45
15	24.27	15.10	249	0.18
20	24.26	15.19	246	0.26
25	24.25	15.35	246	0.26
30	24.25	15.42	265	0.26
35	24.24	15.65	--	--
40	24.22	15.97	343	0.29
45	24.16	16.57	--	--
50	24.10	17.24	337	0.34

PX-4 19 Sept 52		1700 EST Depth -	Weather - Wind - Air -	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.24	13.42	--	--
5	24.28	13.42	--	--
10	24.34	13.57	--	--
15	24.36	13.88	--	--
20	24.25	15.51	--	--
25	24.23	15.70	--	--
30	24.21	15.86	--	--
35	24.15	16.44	--	--
40	24.09	17.00	--	--
45	24.07	17.41	--	--
50	23.99	18.40	--	--

PX-8 18 Sept 52		1600 EST Depth 50'	Weather 02 Wind SSW-5 Air 27.8°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	25.15	11.72	219	0.93
5	25.13	11.83	217	0.77
10	25.12	11.92	221	0.65
15	24.49	12.10	227	0.51
20	24.43	13.84	234	0.58
25	24.30	14.84	223	0.41
30	24.12	15.94	210	0.22
35	24.12	16.04	229	0.18
40	24.10	16.09	219	0.22
45	24.10	16.14	198	0.22
46	24.10	15.85	--	--
47	--	--	201	0.22

PX-8 18 Sept 52		1800 EST Depth 50'	Weather 01 Wind SSW-4 Air 25.6°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	25.16	11.46	--	--
5	25.16	11.46	136	0.41
10	25.16	11.47	131	0.59
15	25.18	11.48	131	0.65
20	24.57	12.41	128	0.77
25	24.58	12.57	175	0.77
30	24.32	14.65	175	0.65
35	24.21	15.26	207	0.59
40	24.15	15.68	178	0.51
45	24.15	15.80	175	0.51
47	24.12	16.07	--	--
48	--	--	195	0.51

PX-8 18 Sept 52		1700 EST Depth 50'	Weather 02 Wind SSW-5 Air 27.2°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	25.16	11.68	--	--
5	25.17	11.69	143	0.53
10	25.16	11.77	163	0.65
15	25.11	11.83	151	0.48
20	24.56	12.57	146	0.53
25	24.54	12.95	146	0.64
30	24.24	14.40	146	0.88
35	24.14	15.80	142	0.48
40	24.12	15.89	139	0.35
45	24.12	15.93	140	0.28
47	24.08	15.98	--	--
49	--	--	140	0.28

PX-8 18 Sept 52		1900 EST Depth 50'	Weather 01 Wind SSW-4 Air 25.3°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	25.15	11.31	--	--
5	25.15	11.31	178	0.65
10	25.17	11.32	173	0.65
15	24.59	11.84	163	0.65
20	24.56	12.24	170	0.65
25	24.57	12.44	170	0.77
30	24.36	14.35	170	0.83
35	24.23	15.27	171	0.77
40	24.12	15.94	173	0.70
45	24.11	16.05	173	0.51
47	24.10	16.12	118	0.59

FX-8 18 Sept 52		2000 EST Depth 50'	Weather 00 Wind SSW-4 Air 25.0°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	25.00	11.26	0	0.00
5	25.00	11.27	0	0.00
10	24.99	11.40	093	0.28
15	24.69	11.83	103	0.28
20	24.61	12.25	083	0.28
25	24.56	12.52	113	0.40
30	24.47	13.41	133	0.40
35	24.27	15.07	163	0.57
40	24.14	15.89	133	0.64
45	24.12	16.02	143	0.35
47	24.14	15.98	128	0.28

FX-8 18 Sept 52		2200 EST Depth 50'	Weather 00 Wind SSW-5 Air 25.0°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.90	11.47	353	0.66
5	24.86	11.51	336	0.50
10	24.83	11.54	343	0.31
15	24.65	12.01	018	0.26
20	24.57	12.73	343	0.20
25	24.48	13.35	343	0.16
30	24.43	13.65	346	0.24
35	24.35	14.25	348	0.14
40	24.26	15.13	348	0.09
45	24.12	15.96	0	0.00
47	24.11	16.12	0	0.00

FX-8 18 Sept 52		2100 EST Depth 50'	Weather 00 Wind SSW-4 Air 25.0°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.97	11.12	123	0.09
5	24.93	11.17	0	0.00
10	24.91	11.30	0	0.00
15	24.81	11.63	0	0.00
20	24.64	12.10	0	0.00
25	24.46	13.47	0	0.00
30	24.37	14.21	0	0.00
35	24.30	14.88	108	0.09
40	24.19	15.62	0	0.00
45	24.14	15.95	0	0.00
47	24.15	15.90	0	0.00

FX-8 18 Sept 52		2306 EST Depth 50'	Weather 00 Wind SSW-5 Air 25.3°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.77	11.76	341	0.64
5	24.74	11.85	333	0.48
10	24.62	12.12	333	0.50
15	24.62	12.25	328	0.58
20	24.50	13.08	336	0.41
25	24.45	13.68	303	0.31
30	24.32	14.55	303	0.31
35	24.28	14.89	301	0.22
40	24.16	15.70	303	0.29
45	24.11	16.08	300	0.25
47	24.11	16.13	303	0.22

PX-8 19 Sept 52		0000 EST Depth 50'	Weather 03 Wind SSW-6 Air 25.0°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.81	12.00	352	0.87
5	24.81	12.33	342	0.67
10	24.74	12.97	313	0.53
15	24.49	13.33	308	0.40
20	24.33	14.64	343	0.60
25	24.20	15.43	353	0.64
30	24.16	15.72	343	0.60
35	24.15	15.89	348	0.64
40	24.10	16.15	341	0.45
45	24.10	16.16	353	0.35
46	24.10	16.19	--	--
49	--	--	351	0.28

PX-8 19 Sept 52		0200 EST Depth 51'	Weather 03 Wind SSW-6 Air 25.6°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.55	12.32	015	0.43
5	24.58	12.38	005	0.32
10	24.64	12.60	005	0.29
15	24.55	13.68	003	0.27
20	24.38	14.56	013	0.24
25	24.18	15.60	016	0.24
30	24.14	15.90	013	0.11
35	24.08	16.27	008	0.09
40	24.07	16.32	013	0.11
45	24.07	16.32	0	0.00
48	24.07	16.32	--	--
49	--	--	0	0.00

PX-8 19 Sept 52		0106 EST Depth 51'	Weather 03 Wind SSW-6 Air 25.6°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.70	12.25	003	0.63
5	24.72	12.30	336	0.52
10	24.66	13.28	303	0.43
15	24.36	14.38	306	0.38
20	24.24	15.13	005	0.38
25	24.12	15.95	346	0.31
30	24.11	16.07	353	0.38
35	24.07	16.26	018	0.29
40	24.07	16.27	326	0.21
45	24.07	16.28	321	0.14
48	24.08	16.28	--	--
49	--	--	326	0.21

PX-8 19 Sept 52		0300 EST Depth 51'	Weather 03 Wind SSW-6 Air 25.0°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.51	12.44	057	0.45
5	24.50	12.44	062	0.41
10	24.50	12.45	110	0.43
15	24.59	13.30	123	0.45
20	24.48	13.56	061	0.22
25	24.18	15.72	0	0.00
30	24.12	16.06	0	0.00
35	24.07	16.48	0	0.00
40	24.07	16.50	0	0.00
45	24.07	16.53	0	0.00
48	24.07	16.55	--	--
49	--	--	0	0.00

PX-8 19 Sept 52		0400 EST Depth 51'	Weather 03 Wind SSW-6 Air 25.0°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.50	12.28	--	--
5	24.50	12.28	147	0.67
10	24.54	12.38	168	0.64
15	24.54	12.76	168	0.64
20	24.32	14.73	158	0.53
25	24.18	15.48	168	0.35
30	24.12	15.97	178	0.21
35	24.11	16.08	170	0.14
40	24.10	16.12	161	0.16
45	24.10	16.16	158	0.20
48	24.08	16.27	--	--
49	--	--	170	0.21

PX-8 19 Sept 52		0600 EST Depth 51'	Weather 01 Wind SSW-2 Air 25.0°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.51	12.00	--	--
5	24.51	12.00	--	--
10	24.54	12.02	154	0.45
15	24.56	12.10	161	0.41
20	24.58	12.19	156	0.31
25	24.57	13.01	155	0.45
30	24.37	14.27	167	0.41
35	24.23	15.31	163	0.16
40	24.15	15.89	108	0.11
45	24.14	15.91	103	0.16
48	24.11	16.02	136	0.14

PX-8 19 Sept 52		0503 EST Depth 50'	Weather 02 Wind SSW-5 Air 25.0°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.49	12.12	094	0.70
5	24.48	12.13	095	0.81
10	24.55	12.26	163	0.70
15	24.56	12.44	165	0.67
20	24.57	13.35	156	0.70
25	24.46	13.94	147	0.67
30	24.26	15.27	109	0.35
35	24.16	15.90	112	0.35
40	24.11	16.05	108	0.40
45	24.11	16.10	126	0.40
48	24.10	16.22	--	--
50	--	--	126	0.45

PX-8 19 Sept 52		0700 EST Depth 51'	Weather 02 Wind SSW-2 Air 25.0°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.50	11.83	--	--
5	24.50	11.83	138	0.26
10	24.48	11.86	138	0.29
15	24.56	12.00	138	0.38
20	24.61	12.25	138	0.29
25	24.59	12.72	133	0.36
30	24.32	14.70	157	0.36
35	24.19	15.55	138	0.31
40	24.15	15.80	122	0.26
45	24.15	15.81	141	0.29
48	24.15	15.85	161	0.26

PX-8 19 Sept 52		0800 EST Depth 51'	Weather 03 Wind SSW-2 Air 23.6°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.49	11.77	--	--
5	24.48	11.77	--	--
10	24.48	11.78	126	0.22
15	24.51	11.87	123	0.29
20	24.63	12.37	146	0.29
25	24.48	13.00	142	0.45
30	24.38	14.05	150	0.45
35	24.24	15.15	134	0.41
40	24.11	16.03	145	0.13
45	24.11	16.11	133	0.18
48	24.11	16.11	063	0.22

PX-8 19 Sept 52		1008 EST Depth 51'	Weather 03 Wind 0 Air 23.3°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.50	11.72	0	0.00
5	24.47	11.73	0	0.00
10	24.46	11.75	0	0.00
15	24.48	11.87	307	0.09
20	24.52	12.94	016	0.09
25	24.43	13.60	021	0.12
30	24.36	14.00	301	0.12
35	24.30	14.60	225	0.17
40	24.15	15.72	357	0.15
45	24.11	16.02	286	0.14
48	24.11	16.08	000	0.11

PX-8 19 Sept 52		0900 EST Depth 51'	Weather 03 Wind SSW-2 Air 23.3°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.46	11.74	0	0.00
5	24.46	11.74	0	0.00
10	24.47	11.77	0	0.00
15	24.51	11.90	0	0.00
20	24.59	12.52	017	0.09
25	24.43	13.49	184	0.14
30	24.36	14.07	188	0.12
35	24.20	15.37	197	0.19
40	24.11	16.00	190	0.14
45	24.11	16.05	010	0.17
48	24.11	16.09	293	0.12

PX-8 19 Sept 52		1100 EST Depth 51'	Weather 03 Wind SSW-1 Air 24.2°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.59	11.94	--	--
5	24.55	11.96	293	0.18
10	24.59	12.17	282	0.18
15	24.52	12.25	297	0.26
20	24.50	12.64	307	0.43
25	24.43	13.44	345	0.50
30	24.32	14.59	340	0.19
35	24.21	15.22	346	0.16
40	24.18	15.57	345	0.16
45	24.11	16.02	348	0.12
48	24.10	16.13	012	0.12

PX-8 19 Sept 52		1200 EST Depth 51'	Weather 13 Wind NW-6 Air 21.1°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.55	12.29	281	0.34
5	24.59	12.35	323	0.57
10	24.46	12.81	343	0.41
15	24.33	13.28	277	0.46
20	24.41	13.72	333	0.73
25	24.26	15.15	328	0.66
30	24.18	15.64	321	0.66
35	24.15	15.71	328	0.58
40	24.10	16.10	333	0.52
45	24.10	16.13	328	0.50
49	24.10	16.12	043	0.31

PX-8 19 Sept 52		1400 EST Depth 51'	Weather 51 Wind 0 Air 20.6°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.41	12.54	0	0.00
5	24.42	12.55	293	0.15
10	24.43	12.62	280	0.16
15	24.39	13.22	320	0.20
20	24.26	15.07	326	0.30
25	24.07	16.13	333	0.64
30	24.04	16.35	329	0.67
35	23.80	17.15	326	0.67
40	23.80	17.20	314	0.48
45	23.80	17.24	310	0.45
49	23.80	17.25	--	--
50	--	--	307	0.40

PX-8 19 Sept 52		1300 EST Depth 51'	Weather 03 Wind NW-4 Air 21.1°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.46	12.51	308	0.35
5	24.46	12.51	307	0.35
10	24.46	12.57	311	0.35
15	24.38	13.13	338	0.48
20	24.38	14.15	337	0.53
25	24.12	15.72	331	0.60
30	24.08	16.07	331	0.78
35	24.07	16.17	331	0.81
40	23.93	16.95	331	0.76
45	23.80	17.19	341	0.76
49	23.80	17.19	--	--
50	--	--	346	0.70

PX-8 19 Sept 52		1500 EST Depth 50'	Weather 51 Wind 0 Air 20.6°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.50	12.27	133	0.20
5	24.41	12.31	122	0.25
10	24.41	12.40	114	0.27
15	24.39	13.58	0	0.00
20	24.15	15.68	327	0.20
25	24.04	16.28	331	0.28
30	23.92	17.04	333	0.33
35	23.89	17.24	343	0.27
40	23.88	17.36	302	0.12
45	23.85	17.50	289	0.11
48	23.86	17.50	288	0.11

FX-12 17 Sept 52		1700 EST Depth 55'	Weather 02 Wind 0 Air 27.2°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	25.74	10.72	090	0.69
5	25.69	10.75	090	0.66
10	25.62	10.84	100	0.69
15	25.06	11.10	097	0.69
20	24.66	11.51	092	0.71
25	24.44	12.27	098	0.66
30	24.33	13.51	102	0.69
35	24.29	14.16	097	0.52
40	24.30	15.07	102	0.39
45	24.30	15.37	099	0.34
50	24.30	15.61	095	0.28
54	24.27	16.32	--	--
55	--	--	0	0.00

FX-12 17 Sept 52		1900 EST Depth 55'	Weather 02 Wind SW-1 Air 25.6°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	25.46	10.60	073	0.55
5	25.42	10.66	113	0.53
10	24.98	10.98	111	0.46
15	24.62	11.51	090	0.46
20	24.52	12.10	090	0.46
25	24.34	14.47	091	0.17
30	24.34	14.83	090	0.12
35	24.34	14.94	0	0.00
40	24.34	15.13	301	0.14
45	24.34	15.50	296	0.17
50	24.31	16.10	296	0.15
53	24.31	16.19	293	0.12

FX-12 17 Sept 52		1800 EST Depth 55'	Weather 02 Wind SW-1 Air 25.0°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	25.45	10.70	111	0.52
5	25.43	10.75	093	0.56
10	25.15	10.86	093	0.62
15	24.79	11.21	093	0.62
20	24.64	11.48	098	0.56
25	24.50	12.43	091	0.62
30	24.39	13.61	091	0.62
35	24.35	14.79	096	0.20
40	24.35	15.06	078	0.12
45	24.35	15.14	0	0.00
50	24.34	15.43	288	0.15
53	--	--	289	0.20
54	24.32	16.18	--	--

FX-12 17 Sept 52		2000 EST Depth 55'	Weather 02 Wind SW-1 Air 24.4°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	25.45	10.49	108	0.31
5	25.10	10.81	108	0.29
10	24.81	10.94	108	0.29
15	24.66	11.41	108	0.29
20	24.58	12.15	103	0.26
25	24.45	14.30	330	0.15
30	24.42	14.57	330	0.15
35	24.42	14.97	0	0.00
40	24.42	15.15	288	0.15
45	24.41	15.37	288	0.23
50	24.38	16.32	290	0.27
53	24.37	16.35	--	--

FX-12 17 Sept 52		2100 EST Depth 55'	Weather 02 Wind SW-1 Air 24.4°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	25.18	10.55	0	0.00
5	25.17	10.57	0	0.00
10	24.79	10.90	0	0.00
15	24.63	11.69	0	0.00
20	24.46	12.87	0	0.00
25	24.41	14.12	228	0.44
30	24.37	14.74	0	0.00
35	24.37	14.89	0	0.00
40	24.37	15.19	0	0.00
45	24.34	16.05	283	0.39
50	24.33	16.26	0	0.00
53	24.32	16.33	--	--

FX-12 17 Sept 52		2300 EST Depth 55'	Weather 02 Wind SW-1 Air 23.3°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.68	10.81	280	0.60
5	24.82	10.92	275	0.85
10	24.77	11.62	277	0.99
15	24.76	11.73	278	1.02
20	24.54	12.91	278	0.80
25	24.49	13.58	285	0.77
30	24.47	13.85	292	0.62
35	24.48	14.89	296	0.66
40	24.45	15.15	291	0.44
45	24.40	15.91	292	0.44
50	24.39	16.00	293	0.39
55	24.39	16.00	291	0.39

FX-12 17 Sept 52		2200 EST Depth 56'	Weather 02 Wind SW-1 Air 23.3°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	25.13	10.62	289	0.52
5	24.88	10.94	279	0.66
10	24.85	11.32	280	0.80
15	24.77	11.80	276	0.92
20	24.53	12.91	279	0.62
25	24.48	13.99	288	0.47
30	24.48	14.36	288	0.39
35	24.49	14.43	293	0.44
40	24.47	15.28	293	0.66
45	24.42	15.98	298	0.69
50	24.42	16.13	296	0.59
53	24.41	16.15	--	--
54	--	--	295	0.44

FX-12 18 Sept 52		0000 EST Depth 55'	Weather 01 Wind SW-1 Air 23.9°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.89	10.82	305	0.69
5	24.84	11.27	295	0.80
10	24.77	11.37	295	0.77
15	24.76	11.47	296	0.77
20	24.58	12.26	295	0.77
25	24.47	13.23	308	0.52
30	24.45	14.30	302	0.28
35	24.42	14.82	296	0.28
40	24.40	15.17	295	0.34
45	24.35	15.82	294	0.28
50	24.34	15.87	--	--
54	24.34	16.01	--	--

PX-12 18 Sept 52		0124 EST Depth 55'		Weather 01 Wind SW-1 Air 23.9°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current		
			Dir (°T)	Speed (kts)	
0	24.78	11.21	308	0.82	
5	24.82	11.30	298	0.52	
10	24.84	11.40	288	0.52	
15	24.68	11.98	288	0.44	
20	24.54	12.76	295	0.44	
25	24.47	13.80	310	0.44	
30	24.44	14.18	0	0.00	
35	24.43	14.82	227	0.14	
40	24.40	15.03	147	0.06	
45	24.36	15.59	148	0.15	
50	24.33	15.96	123	0.23	
54	24.32	16.16	122	0.30	

PX-12 18 Sept 52		0300 EST Depth 55'		Weather 01 Wind SW-1 Air 22.8°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current		
			Dir (°T)	Speed (kts)	
0	24.75	11.11	023	0.09	
5	24.75	11.11	173	0.09	
10	24.77	11.15	173	0.15	
15	24.76	11.39	172	0.16	
20	24.54	12.55	0	0.00	
25	24.46	13.15	176	0.17	
30	24.43	13.85	130	0.23	
35	24.41	14.24	121	0.23	
40	24.39	14.55	112	0.27	
45	24.37	14.81	101	0.33	
50	24.35	15.18	113	0.26	
54	24.34	15.31	115	0.25	

PX-12 18 Sept 52		0200 EST Depth 55'		Weather 01 Wind 0 Air 23.9°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current		
			Dir (°T)	Speed (kts)	
0	24.74	11.09	323	0.20	
5	24.83	11.28	304	0.24	
10	24.83	11.29	264	0.24	
15	24.70	11.76	266	0.24	
20	24.58	12.25	294	0.21	
25	24.51	13.22	194	0.11	
30	24.48	13.60	0	0.00	
35	24.44	14.30	0	0.00	
40	24.38	14.96	117	0.14	
45	24.38	15.04	117	0.17	
50	24.33	15.51	117	0.23	
54	24.31	15.77	119	0.27	

PX-12 18 Sept 52		0400 EST Depth 55'		Weather 01 Wind SW-1 Air 22.8°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current		
			Dir (°T)	Speed (kts)	
0	24.49	10.72	--	--	
5	24.51	10.76	135	0.60	
10	24.61	11.18	141	0.53	
15	24.63	11.90	118	0.45	
20	24.49	12.62	117	0.45	
25	24.40	13.34	117	0.58	
30	24.37	13.95	126	0.57	
35	24.37	14.08	126	0.50	
40	24.35	14.72	126	0.46	
45	24.33	14.97	124	0.53	
50	24.32	15.32	123	0.41	
54	24.31	15.48	349	0.18	

PX-12 18 Sept 52		0500 EST Depth 55'	Weather 01 Wind SW-1 Air -	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.52	10.96	--	--
5	24.53	10.96	143	0.55
10	24.58	11.04	147	0.69
15	24.64	11.58	151	0.73
20	24.51	12.93	124	0.66
25	24.49	13.13	117	0.58
30	24.48	13.42	103	0.57
35	24.43	14.12	104	0.53
40	24.39	14.62	126	0.45
45	24.37	15.06	137	0.18
50	24.36	15.33	0	0.00
53	24.35	15.64	0	0.00

PX-12 18 Sept 52		0700 EST Depth 54'	Weather 02 Wind SW-2 Air 24.4°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.41	11.01	051	0.67
5	24.41	11.01	122	0.64
10	24.67	11.43	144	0.57
15	24.66	11.76	084	0.48
20	24.55	12.65	081	0.50
25	24.40	14.48	071	0.26
30	24.39	14.80	0	0.00
35	24.39	14.98	0	0.00
40	24.39	15.12	0	0.00
45	24.39	15.45	265	0.22
50	24.33	15.77	243	0.36
53	24.33	15.81	243	0.22

PX-12 18 Sept 52		0600 EST Depth 55'	Weather 02 Wind SW-2 Air 21.1°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.46	11.24	074	0.57
5	24.44	11.16	093	0.70
10	24.46	11.19	092	0.55
15	24.52	11.50	093	0.50
20	24.55	11.67	100	0.48
25	24.28	13.82	093	0.50
30	24.27	14.44	094	0.36
35	24.25	14.78	0	0.00
40	24.33	14.86	0	0.00
45	24.36	15.08	0	0.00
50	24.34	15.32	271	0.26
53	24.34	15.71	251	0.22

PX-12 18 Sept 52		0800 EST Depth 55'	Weather 02 Wind SW-2 Air 25.6°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.55	11.04	0	0.00
5	24.55	11.04	0	0.00
10	24.54	11.05	147	0.22
15	24.61	11.75	055	0.26
20	24.41	12.17	053	0.26
25	24.24	13.93	0	0.00
30	24.21	14.71	270	0.22
35	24.18	15.05	0	0.00
40	24.18	15.25	245	0.18
45	24.15	15.40	248	0.22
50	24.08	15.93	254	0.26
53	24.08	16.03	254	0.22

PX-12 18 Sept 52		0900 EST Depth 55'		Weather 02 Wind SW-1 Air 35.6°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current		
			Dir (°T)	Speed (kts)	
0	24.53	11.01	0	0.00	
5	24.53	11.01	0	0.00	
10	24.52	11.23	238	0.45	
15	24.57	11.90	239	0.36	
20	24.56	12.25	241	0.31	
25	24.39	14.20	246	0.29	
30	24.35	14.91	261	0.34	
35	24.34	15.18	251	0.29	
40	24.33	15.29	253	0.29	
45	24.33	15.40	267	0.38	
50	24.31	15.93	318	0.38	
53½	24.30	15.97	327	0.29	

PX-12 18 Sept 52		1100 EST Depth 55'	Weather 02 Wind SW-1 Air 28.9°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.83	11.07	285	0.82
5	24.76	11.09	290	0.82
10	24.57	11.34	293	0.87
15	24.59	12.27	300	0.87
20	24.56	12.81	303	0.77
25	24.54	13.26	305	0.70
30	24.43	14.22	291	0.58
35	24.42	14.76	305	0.38
40	24.38	15.16	298	0.31
45	24.36	15.50	295	0.26
50	24.34	15.81	293	0.26
53	24.33	15.93	284	0.22

PX-12 18 Sept 52		1000 EST Depth 55'		Weather 02 Wind SW-1 Air 27.8°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current		
			Dir (°T)	Speed (kts)	
0	24.68	10.93	290	0.64	
5	24.68	10.96	273	0.58	
10	24.59	11.20	275	0.66	
15	24.68	11.97	275	0.75	
20	24.56	13.31	270	0.69	
25	24.54	13.85	288	0.58	
30	24.46	14.43	287	0.46	
35	24.45	14.65	275	0.41	
40	24.45	14.81	285	0.41	
45	24.41	15.79	283	0.46	
50	24.40	15.88	284	0.38	
53	--	--	284	0.36	
54	24.40	15.89	--	--	

PX-12 18 Sept 52		1200 EST Depth 55'	Weather 02 Wind SW-3 Air 29.4°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.97	11.19	313	0.56
5	24.80	11.28	308	0.56
10	24.67	11.39	300	0.71
15	24.54	11.82	295	0.71
20	24.58	12.61	291	0.66
25	24.50	13.21	--	--
30	24.42	14.47	292	0.56
35	24.39	14.99	--	--
40	24.37	15.38	0	0.00
45	24.34	15.85	--	--
50	24.33	15.95	0	0.00
54	24.33	15.98	--	--

PX-12 18 Sept 52		1300 EST Depth 55'	Weather 02 Wind SW-3 Air 30.0°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	25.03	11.33	340	0.56
5	25.02	11.34	327	0.59
10	25.01	11.35	325	0.59
15	25.01	11.35	301	0.56
20	24.62	12.28	316	0.59
25	24.51	13.68	311	0.47
30	24.48	14.37	307	0.44
35	24.47	14.51	303	0.39
40	24.46	14.66	0	0.00
45	24.39	15.62	--	--
50	24.38	15.78	0	0.00
54	24.38	15.80	--	--

PX-12 18 Sept 52		1500 EST Depth 54'	Weather 02 Wind SW-3 Air 30.0°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	25.10	11.25	014	0.21
5	25.11	11.25	038	0.15
10	25.06	11.25	161	0.15
15	24.71	11.80	037	0.12
20	24.63	12.66	034	0.12
25	24.59	13.19	124	0.26
30	24.50	14.27	121	0.31
35	24.46	14.77	133	0.26
40	24.44	15.00	143	0.29
45	24.41	15.20	0	0.00
50	24.40	15.33	129	0.29
53	24.40	15.36	242	0.22

PX-12 18 Sept 52		1400 EST Depth 54'	Weather 02 Wind SW-3 Air 30.6°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	25.05	11.24	334	0.23
5	25.04	11.24	271	0.38
10	25.01	11.25	259	0.36
15	24.70	11.62	262	0.38
20	24.64	12.33	313	0.50
25	24.52	13.29	0	0.00
30	24.46	13.82	0	0.00
35	24.41	14.54	0	0.00
40	24.38	15.21	0	0.00
45	24.38	15.26	155	0.26
50	24.35	15.63	151	0.31
54	24.35	15.68	150	0.41

PX-12 18 Sept 52		1600 EST Depth 55'	Weather 03 Wind SW-3 Air 29.4°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	25.11	11.01	025	0.15
5	25.11	11.01	086	0.27
10	25.13	11.23	111	0.29
15	24.70	12.13	113	0.15
20	24.58	13.14	160	0.23
25	24.55	13.56	149	0.22
30	24.49	14.23	111	0.27
35	24.42	14.61	100	0.29
40	24.45	14.83	102	0.28
45	24.43	15.08	103	0.31
50	24.41	15.38	098	0.29
55	24.41	15.57	088	0.23

PX-12 1700 EST Weather 03
 18 Sept 52 Depth 55' Wind SW-2
 Air 22.2°C

Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	--	--	113	0.74
5	--	--	118	0.90
10	--	--	118	0.87
15	--	--	118	0.82
20	--	--	131	1.17
25	--	--	123	1.14
30	--	--	127	1.01
35	--	--	137	0.97
40	--	--	145	0.87
45	--	--	118	0.41

FX-16 17 Sept 52		1620 EST Depth 35'	Weather 02 Wind 0 Air 26.9°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	25.77	10.01	138	0.36
5	25.17	10.16	139	0.45
10	24.36	10.40	134	0.34
15	24.39	11.57	134	0.26
20	24.19	11.88	139	0.22
25	24.08	13.78	139	0.18
30	24.18	14.56	0	0.00
32	24.19	14.66	0	0.00

FX-16 17 Sept 52		1800 EST Depth 35'	Weather 02 Wind SSE-1 Air 25.0°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	25.44	10.07	133	0.40
5	24.70	10.23	133	0.40
10	24.56	10.38	133	0.40
15	24.38	11.70	133	0.28
20	24.18	12.45	133	0.28
25	24.07	13.78	133	0.35
30	24.14	14.51	133	0.20
32	24.18	14.82	--	--

FX-16 17 Sept 52		1700 EST Depth 35'	Weather 02 Wind 0 Air 26.1°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	26.08	10.01	133	0.35
5	24.94	10.16	133	0.40
10	24.58	10.29	148	0.40
15	24.43	11.40	134	0.26
20	24.15	12.60	139	0.24
25	24.07	13.73	133	0.20
30	24.16	14.67	133	0.09
32	24.18	14.68	133	0.15

FX-16 17 Sept 52		1900 EST Depth 34'	Weather 02 Wind 0 Air 24.4°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	25.00	10.10	137	0.29
5	24.67	10.27	143	0.29
10	24.56	10.72	152	0.36
15	24.43	11.61	143	0.24
20	24.24	12.33	143	0.21
25	24.04	13.37	144	0.20
30	24.11	14.21	139	0.09
31	24.18	14.44	--	--

PX-16 17 Sept 52		2000 EST Depth 34'	Weather 02 Wind 0 Air -	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.92	10.11	122	0.12
5	24.96	10.13	122	0.21
10	24.82	10.57	127	0.19
15	24.46	11.59	0	0.00
20	24.30	12.40	127	0.14
25	24.04	13.47	136	0.11
30	24.10	13.72	0	0.00

PX-16 17 Sept 52		2203 EST Depth 34'	Weather 02 Wind SE-1 Air 23.3°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.67	10.10	323	0.19
5	24.77	10.37	303	0.27
10	24.68	10.58	308	0.43
15	24.48	11.18	323	0.29
20	24.18	12.42	318	0.31
25	24.04	13.37	323	0.43
30	24.16	14.82	323	0.60
31	24.16	14.85	--	--
33	--	--	323	0.61

PX-16 17 Sept 52		2100 EST Depth 34'	Weather 02 Wind 0 Air 24.4°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.86	10.15	0	0.00
5	24.77	10.35	0	0.00
10	24.66	10.48	238	0.06
15	24.52	11.16	238	0.14
20	24.27	12.11	048	0.11
25	24.11	12.77	318	0.15
30	24.07	13.85	318	0.14
31	24.10	13.98	--	--
32	--	--	318	0.15

PX-16 17 Sept 52		2300 EST Depth 34'	Weather 02 Wind SW-2 Air 24.4°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.83	10.05	321	0.53
5	24.86	10.11	326	0.45
10	24.50	10.67	321	0.10
15	24.38	11.78	326	0.53
20	24.08	12.96	326	0.48
25	24.14	14.37	321	0.60
30	24.16	14.84	326	0.40
31	24.16	14.84	--	--
33	--	--	321	0.46

PX-16 18 Sept 52		0000 EST Depth 35'	Weather 00 Wind S-2 Air 23.3°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.99	10.11	320	0.28
5	24.95	10.19	320	0.28
10	24.43	10.75	320	0.40
15	24.37	11.98	320	0.64
20	24.16	12.74	320	0.60
26	24.12	14.03	319	0.40
30	24.16	14.73	321	0.28
32	24.16	14.89	320	0.28

PX-16 18 Sept 52		0206 EST Depth 35'	Weather 00 Wind S-2 Air 22.8°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.51	10.25	0	0.00
5	24.62	10.48	0	0.12
10	24.46	11.27	331	0.29
15	24.32	12.38	001	0.29
20	24.14	13.55	0	0.26
25	24.11	14.36	0	0.26
30	24.15	14.74	330	0.26
32	24.16	14.93	322	0.26

PX-16 18 Sept 52		0100 EST Depth 35'	Weather 00 Wind S-2 Air 22.8°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.66	10.20	331	0.24
5	24.71	10.23	332	0.23
10	24.69	10.80	331	0.26
15	24.36	12.02	321	0.50
20	24.26	12.67	350	0.34
25	24.12	13.62	331	0.26
30	24.16	14.71	331	0.22
32	24.18	14.67	331	0.18

PX-16 18 Sept 52		0300 EST Depth 34'	Weather 00 Wind S-3 Air 22.5°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.43	10.27	0	0.00
5	24.46	10.50	0	0.00
10	24.46	11.49	0	0.00
15	24.38	11.85	141	0.11
20	24.27	13.03	101	0.15
25	24.15	14.57	051	0.12
30	24.16	15.03	331	0.12
31	24.16	15.09	320	0.12

PX-16 18 Sept 52		0410 EST Depth 34'	Weather 00 Wind S-2 Air 21.9°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.35	10.29	150	0.21
5	24.41	10.36	130	0.23
10	24.65	11.06	143	0.28
15	24.48	11.57	120	0.17
20	24.23	12.88	130	0.19
25	24.12	14.70	140	0.20
30	24.16	15.08	140	0.14
31	24.18	14.88	138	0.19

PX-16 18 Sept 52		0600 EST Depth 34'	Weather 01 Wind S-1 Air 21.7°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.38	10.25	135	0.35
5	24.41	10.26	135	0.30
10	24.43	10.46	135	0.30
15	24.49	11.59	135	0.32
20	24.28	12.65	138	0.35
25	24.12	14.52	136	0.34
30	24.15	14.87	138	0.22
31	24.15	14.88	133	0.24

PX-16 18 Sept 52		0500 EST Depth 34'	Weather 01 Wind S-2 Air 21.7°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.46	10.36	139	0.29
5	24.48	10.36	141	0.29
10	24.50	10.43	139	0.38
15	24.54	11.31	139	0.31
20	24.27	12.52	141	0.29
25	24.11	14.42	127	0.18
30	24.15	14.94	140	0.18
31	24.15	14.79	130	0.18

PX-16 18 Sept 52		0700 EST Depth 33'	Weather 01 Wind S-2 Air 22.2°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.15	10.25	122	0.17
5	24.18	10.25	125	0.19
10	24.26	10.29	138	0.21
15	24.36	11.72	138	0.15
20	24.28	12.36	136	0.63
25	24.08	14.06	138	0.69
30	24.11	14.65	140	0.38
31	24.11	14.65	140	0.34

PX-16 18 Sept 52		0800 EST Depth 32'	Weather 01 Wind SSW-3 Air 22.8°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.28	10.24	120	0.31
5	24.27	10.24	120	0.26
10	24.28	10.28	140	0.26
15	24.48	11.12	139	0.31
20	24.30	12.10	125	0.31
25	24.10	13.55	140	0.26
30	24.12	14.61	0	0.00

PX-16 18 Sept 52		1000 EST Depth 33'	Weather 01 Wind SSW-2 Air 25.6°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.50	10.25	319	0.21
5	24.46	10.27	329	0.21
10	24.39	10.40	319	0.20
15	24.40	11.38	333	0.16
20	24.28	12.27	323	0.24
25	24.10	13.36	321	0.30
30	24.11	15.07	321	0.32

PX-16 18 Sept 52		0905 EST Depth 32'	Weather 01 Wind SSW-3 Air 23.9°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.33	10.23	0	0.00
5	24.26	10.27	0	0.00
10	24.28	10.36	0	0.00
15	24.42	11.15	0	0.00
20	24.29	12.15	120	0.16
25	24.12	13.32	0	0.00
30	24.10	14.24	325	0.11

PX-16 18 Sept 52		1100 EST Depth 33'	Weather 01 Wind SSW-2 Air 27.8°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.71	10.21	342	0.41
5	24.36	10.30	342	0.31
10	24.28	10.48	332	0.36
15	24.36	11.60	330	0.38
20	24.20	12.73	320	0.50
25	24.10	14.46	320	0.48
30	24.12	15.13	321	0.53

PX-16 18 Sept 52		1200 EST Depth 34'	Weather 02 Wind SSW-3 Air 27.8°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.92	10.30	330	0.50
5	24.54	10.46	330	0.36
10	24.42	11.27	330	0.48
15	24.37	11.78	330	0.52
20	24.19	12.77	331	0.50
25	24.10	14.45	330	0.41
30	24.11	15.06	330	0.31
32	--	--	330	0.26

PX-16 18 Sept 52		1403 EST Depth 34'	Weather 02 Wind SSW-4 Air 28.9°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.87	10.36	331	0.31
5	24.65	10.59	323	0.26
10	24.42	11.65	323	0.30
15	24.27	12.32	330	0.28
20	24.16	12.73	330	0.24
25	24.16	13.26	331	0.12
30	24.06	14.47	0	0.00
32	--	--	0	0.00

PX-16 18 Sept 52		1302 EST Depth 34'	Weather 02 Wind SSW-3 Air 28.3°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.92	10.30	331	0.36
5	24.65	10.44	331	0.38
10	24.45	11.22	333	0.41
15	24.37	11.83	330	0.43
20	24.26	12.54	332	0.48
25	24.11	13.61	332	0.29
30	24.11	14.37	324	0.22
32	--	--	331	0.18

PX-16 18 Sept 52		1448 EST Depth 34'	Weather 02 Wind SSW-4 Air -	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.90	10.44	338	0.21
5	24.84	10.62	331	0.21
10	24.46	11.50	331	0.20
15	24.26	12.40	332	0.14
20	24.18	13.03	334	0.16
25	24.07	13.77	343	0.12
30	24.10	14.15	0	0.00
31	--	--	0	0.00

PX-21 16 Sept 52		1615 EST Depth 37'	Weather 01 Wind SW-2 Air 30.0°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	25.33	9.07	194	0.74
5	25.29	9.15	206	0.74
10	24.89	9.49	206	0.69
15	24.81	9.93	196	0.59
20	24.78	10.11	141	0.47
25	24.63	10.71	187	0.20
30	24.62	10.80	177	0.16
34	24.60	10.85	--	--
34½	--	--	192	0.15

PX-21 16 Sept 52		1840 EST Depth 35'	Weather 01 Wind SW-2 Air 27.8°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	25.36	8.34	206	0.90
5	25.36	8.48	207	0.74
10	25.17	8.68	197	0.69
15	25.11	8.76	198	0.59
20	25.10	8.77	178	0.52
25	24.94	9.73	199	0.39
30	24.81	10.25	0	0.00

PX-21 16 Sept 52		1705 EST Depth 34'	Weather 01 Wind 0 Air 30.0°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	25.32	8.73	203	0.90
5	25.28	8.87	202	0.95
10	25.26	8.91	196	0.82
15	25.02	9.17	196	0.85
20	24.93	9.61	190	0.82
25	24.67	10.31	182	0.44
30	24.55	10.81	0	0.00
34	24.51	10.96	0	0.00

PX-21 16 Sept 52		1900 EST Depth 32'	Weather 01 Wind SW-2 Air 25.0°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	25.32	8.25	224	0.56
5	25.28	8.48	224	0.52
10	25.14	8.65	213	0.44
15	25.11	8.69	213	0.39
20	25.08	8.80	204	0.39
25	24.91	9.79	0	0.00
30	24.88	10.61	0	0.00

PX-21 16 Sept 52		2000 EST Depth 28'	Weather 01 Wind SW-2 Air 23.3°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	25.33	8.25	0	0.00
5	25.30	8.32	228	0.29
10	25.29	8.35	217	0.22
15	25.24	8.43	207	0.22
20	25.13	8.82	0	0.00
25	25.08	9.10	037	0.26

PX-21 16 Sept 52		2300 EST Depth 34'	Weather 01 Wind SSW-2 Air 21.1°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.92	9.06	021	0.97
5	25.17	9.42	021	0.82
10	25.04	9.76	018	0.92
15	24.93	10.14	017	0.92
20	24.78	10.57	017	0.92
25	24.71	10.78	017	0.82
30	24.67	10.87	017	0.65

PX-21 16 Sept 52		2100 EST Depth 26'	Weather 01 Wind SW-2 Air 22.8°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	25.27	8.23	--	--
5	25.27	8.27	040	0.36
10	25.27	8.35	351	0.48
15	25.24	8.48	351	0.57
20	25.16	8.80	352	0.66
25	25.15	8.84	352	0.73

PX-21 17 Sept 52		0000 EST Depth 33'	Weather 01 Wind SW-1 Air 21.1°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.98	9.37	015	0.65
5	24.98	9.38	009	0.58
10	24.98	9.45	010	0.65
15	24.76	10.52	007	0.58
20	24.56	11.07	011	0.58
25	24.52	11.21	018	0.65
30	24.49	11.26	018	0.65

PX-21 16 Sept 52		2200 EST Depth 26'	Weather 01 Wind SSW-2 Air 22.2°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	25.06	8.65	--	--
5	25.08	9.25	347	0.82
10	25.08	9.34	347	0.90
15	25.03	9.54	347	0.92
20	24.80	10.37	347	0.90
24	24.78	10.52	347	0.87

PX-21 17 Sept 52		0100 EST Depth 33'	Weather 01 Wind W-1 Air 20.0°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.75	9.57	019	0.36
5	24.77	9.61	018	0.36
10	24.89	9.77	004	0.43
15	24.63	10.87	003	0.31
20	24.52	11.21	022	0.36
25	24.49	11.31	017	0.43
30	24.47	11.36	017	0.52

FX-21 17 Sept 52		0200 EST Depth 33'	Weather 01 Wind W-1 Air 18.9°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.64	9.64	018	0.15
5	24.68	9.66	359	0.22
10	24.67	9.79	358	0.29
15	24.65	10.76	357	0.14
20	24.55	11.16	015	0.21
25	24.46	12.41	008	0.15
30	24.46	11.43	015	0.14

FX-21 17 Sept 52		0400 EST Depth 30'	Weather 01 Wind W-1 Air 17.8°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.35	9.54	153	0.50
5	24.32	9.53	178	0.43
10	24.59	10.88	173	0.26
15	24.56	10.92	173	0.31
20	24.47	11.29	176	0.34
25	24.45	11.38	176	0.29
29	--	--	175	0.26
30	24.45	11.38	--	--

FX-21 17 Sept 52		0300 EST Depth 33'	Weather 01 Wind NW-1 Air 17.8°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.45	9.72	218	0.15
5	24.49	9.70	0	0.00
10	24.59	9.81	0	0.00
15	24.69	10.50	066	0.12
20	24.55	10.99	0	0.00
25	24.45	11.35	0	0.00
27	24.45	11.38	0	0.00

FX-21 17 Sept 52		0500 EST Depth 30'	Weather 01 Wind NW-1 Air 17.8°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.12	8.25	207	0.82
5	24.37	9.20	207	0.70
10	24.66	10.00	202	0.58
15	24.66	10.48	204	0.47
20	24.63	10.74	197	0.39
25	24.54	11.04	189	0.38
30	24.50	11.23	184	0.26

PX-21 17 Sept 52		0600 EST Depth 35'	Weather 01 Wind NW-1 Air 19.4°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.29	8.76	193	0.58
5	24.43	8.94	198	0.58
10	24.49	9.31	200	0.31
15	24.60	9.98	201	0.29
20	24.60	10.29	183	0.26
25	24.55	11.04	183	0.22
30	24.52	11.12	0	0.00
35	24.49	11.23	0	0.00

PX-21 17 Sept 52		0800 EST Depth 37'	Weather 01 Wind NW-1 Air 22.2°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.23	8.58	188	0.34
5	24.29	8.63	186	0.34
10	24.42	8.91	165	0.34
15	24.59	9.45	164	0.34
20	24.58	10.04	0	0.00
25	24.58	10.26	0	0.00
30	24.54	10.54	0	0.00
35	24.50	10.78	0	0.00

PX-21 17 Sept 52		0700 EST Depth 36'	Weather 01 Wind NW-1 Air 21.1°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.01	8.44	200	0.65
5	24.21	8.69	200	0.58
10	24.32	8.80	203	0.50
15	24.45	9.38	203	0.50
20	24.60	10.01	201	0.50
25	24.54	10.58	0	0.00
30	24.48	10.97	0	0.00
35	24.44	11.13	0	0.00

PX-21 17 Sept 52		0900 EST Depth 34'	Weather 01 Wind SSE-1 Air 26.7°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.41	8.49	0	0.00
5	24.33	8.53	0	0.00
10	24.41	8.77	0	0.00
15	24.44	9.02	0	0.00
20	24.60	9.72	0	0.00
25	24.57	10.02	0	0.00
30	24.53	10.41	0	0.00
33	24.52	10.59	0	0.00

PX-21 17 Sept 52		1000 EST Depth 34'	Weather 01 Wind SSE-1 Air 32.2°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.47	8.65	053	0.44
5	24.36	8.80	049	0.52
10	24.38	8.94	047	0.56
15	24.17	9.27	044	0.52
20	24.20	9.36	043	0.56
25	24.28	9.49	042	0.44
30	24.44	10.03	048	0.39
32	24.48	10.28	049	0.28

PX-21 17 Sept 52		1200 EST Depth 32'	Weather 01 Wind 0 Air 29.4°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	25.21	8.95	012	0.77
5	24.16	9.47	007	0.71
10	24.40	10.18	010	0.85
15	24.40	10.52	016	0.85
20	24.37	10.88	016	0.69
25	24.35	11.05	016	0.69
30	24.35	11.08	017	0.77
31½	24.35	11.09	--	--
34	--	--	015	0.59

PX-21 17 Sept 52		1100 EST Depth 35'	Weather 01 Wind SE-1 Air 29.4°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.88	8.77	033	0.69
5	24.44	9.34	038	0.69
10	24.50	9.93	033	0.74
15	24.49	10.40	028	0.82
20	24.47	10.88	033	0.82
25	24.45	11.00	046	0.77
30	24.39	10.95	051	0.71
33	24.39	10.95	051	0.71

PX-21 17 Sept 52		1300 EST Depth 35'	Weather 01 Wind SW-1 Air 29.4°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.63	9.39	022	0.39
5	24.53	9.42	015	0.56
10	24.33	9.92	340	0.66
15	24.30	10.14	342	0.62
20	24.28	11.20	008	0.44
25	24.28	11.43	013	0.52
30	24.28	11.46	017	0.52
33	--	--	019	0.59
34	24.27	11.53	--	--

FX-21 17 Sept 52		1400 EST Depth 34'	Weather 02 Wind SW-1 Air 29.4°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.47	9.52	021	0.19
5	24.35	9.75	018	0.23
10	24.33	9.79	350	0.26
15	24.28	10.50	018	0.22
20	24.25	11.25	017	0.25
25	24.24	11.49	013	0.36
30	24.21	11.64	023	0.41
32	--	--	008	0.41
33	24.21	11.67	--	--

FX-21 17 Sept 52		1500 EST Depth 36'	Weather 02 Wind 0 Air 28.3°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.99	9.44	0	0.00
5	24.62	9.65	0	0.00
10	24.36	10.42	097	0.18
15	24.30	11.14	0	0.00
20	24.28	11.50	0	0.00
25	24.26	11.65	0	0.00
30	24.25	11.69	0	0.00
33	24.25	11.70	0	0.00

PX-22 16 Sept 52		1612 EST Depth 18'		Weather 01 Wind WSW-2 Air 27.8°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current		
			Dir (°T)	Speed (kts)	
0	24.03	9.43	176	0.64	
5	23.61	8.65	176	0.64	
10	22.99	8.95	176	0.60	
15	22.94	8.98	177	0.45	

PX-22 16 Sept 52		1902 EST Depth 17'		Weather 00 Wind SSW-2 Air 24.4°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current		
			Dir (°T)	Speed (kts)	
0	25.47	5.23	179	0.93	
5	25.46	6.82	179	0.65	
10	25.05	7.83	179	0.51	
14	25.03	7.88	179	0.41	

PX-22 16 Sept 52		1703 EST Depth 18'		Weather 01 Wind WSW-1 Air 27.2°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current		
			Dir (°T)	Speed (kts)	
0	25.72	7.65	177	1.02	
5	25.76	7.80	177	0.88	
10	25.05	8.31	177	0.70	
15	25.04	8.33	177	0.65	

PX-22 16 Sept 52		2004 EST Depth 17'		Weather 00 Wind SSE-2 Air 22.8°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current		
			Dir (°T)	Speed (kts)	
0	25.19	5.83	182	0.43	
5	25.27	6.63	182	0.41	
10	25.30	7.21	192	0.13	
14	25.24	7.40	201	0.22	

PX-22 16 Sept 52		1800 EST Depth 18'		Weather 00 Wind WSW-2 Air 25.8°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current		
			Dir (°T)	Speed (kts)	
0	25.70	6.27	179	1.33	
5	25.54	7.31	179	0.97	
10	25.15	7.92	179	0.83	
15	24.96	8.13	179	0.70	

PX-22 16 Sept 52		2104 EST Depth 17'		Weather 00 Wind S-1 Air 21.7°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current		
			Dir (°T)	Speed (kts)	
0	25.42	6.92	006	0.12	
5	25.19	7.56	301	0.29	
10	25.21	7.97	296	0.43	
14	25.33	8.12	286	0.36	

FX-22 16 Sept 52		2204 EST Depth 17'	Weather 00 Wind S-1 Air 21.4°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.96	6.92	333	0.51
5	25.12	7.77	333	0.65
10	25.05	7.93	343	0.70
14	25.03	8.12	353	0.59

FX-22 17 Sept 52		0103 EST Depth 17'	Weather 00 Wind 0 Air 20.0°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.88	8.77	357	0.35
5	24.97	9.07	001	0.45
10	24.94	9.22	001	0.48
15	24.95	9.27	351	0.53

FX-22 16 Sept 52		2303 EST Depth 17'	Weather 00 Wind WNW-1 Air 21.1°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	25.18	8.07	357	0.51
5	25.16	8.07	310	0.65
10	25.17	8.07	325	0.70
14	25.15	8.07	315	0.88

FX-22 17 Sept 52		0205 EST Depth 17'	Weather 00 Wind NW-1 Air 19.4°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.56	8.20	311	0.35
5	24.74	8.87	316	0.29
10	24.90	9.50	322	0.27
15	24.92	9.53	325	0.21

FX-22 16 Sept 52		0004 EST Depth 17'	Weather 00 Wind 0 Air 20.6°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.96	8.34	346	0.48
5	25.08	8.51	346	0.65
10	25.08	8.53	346	0.65
15	25.09	8.55	353	0.65

FX-22 17 Sept 52		0303 EST Depth 17'	Weather 00 Wind NW-1 Air 18.9°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.63	8.34	219	0.23
5	24.63	8.58	206	0.16
10	24.86	9.58	311	0.17
15	24.91	9.60	330	0.11

PX-22 17 Sept 52		0403 EST Depth 17'	Weather 00 Wind NW-1 Air 18.9°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.36	7.65	177	0.53
5	24.76	9.07	175	0.46
10	24.86	9.39	173	0.29
15	24.88	9.48	178	0.26

PX-22 17 Sept 52		0701 EST Depth 17'	Weather 01 Wind SW-1 Air 22.8°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	23.73	7.10	167	0.99
5	24.56	7.83	167	0.76
10	24.82	8.22	167	0.67
14	24.79	8.23	--	--
15	--	--	167	0.48

PX-22 17 Sept 52		0505 EST Depth 17'	Weather 00 Wind NW-1 Air 18.3°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	23.90	8.11	156	0.84
5	24.71	8.77	155	0.69
10	24.91	9.22	155	0.53
14	24.87	9.42	153	0.48

PX-22 17 Sept 52		0802 EST Depth 17'	Weather 02 Wind SW-1 Air 26.1°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.14	6.93	169	0.46
5	24.30	7.03	169	0.52
10	24.79	7.65	168	0.48
14	24.87	7.97	--	--
15	--	--	167	0.36

PX-22 17 Sept 52		0602 EST Depth 17'	Weather 00 Wind 0 Air 18.3°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.00	7.93	168	1.26
5	24.29	8.20	168	0.97
10	24.74	8.66	169	0.77
14	24.80	8.73	--	--
15	--	--	169	0.65

PX-22 17 Sept 52		0901 EST Depth 17'	Weather 02 Wind 0 Air 26.1°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.36	6.54	214	0.32
5	24.65	7.25	215	0.16
10	24.68	7.53	0	0.00
14	24.50	7.66	--	--
15	--	--	0	0.00

PX-22 17 Sept 52		1001 EST Depth 17'	Weather 02 Wind WSW-1 Air 24.4°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.82	6.47	0	0.00
5	24.65	7.99	325	0.06
10	24.76	8.73	311	0.73
14	24.74	8.78	--	--
15	--	--	313	0.60

PX-22 17 Sept 52		1302 EST Depth 17'	Weather - Wind SSW-2 Air 26.7°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	25.11	8.68	001	0.48
5	24.77	8.94	353	0.53
10	24.66	8.94	341	0.64
15	24.66	8.94	0	0.48

PX-22 17 Sept 52		1103 EST Depth 17'	Weather 02 Wind 0 Air 25.0°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	25.03	7.13	351	0.45
5	24.27	8.40	351	0.81
10	24.63	8.72	345	0.78
15	24.67	8.76	345	0.73

PX-22 17 Sept 52		1402 EST Depth 17'	Weather 02 Wind 0 Air 27.5°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	25.07	8.78	335	0.35
5	24.70	9.10	335	0.45
10	24.68	9.24	338	0.45
15	24.67	9.25	340	0.28

PX-22 17 Sept 52		1203 EST Depth 17'	Weather 02 Wind 0 Air 29.7°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.54	8.13	331	0.81
5	24.46	8.57	351	0.64
10	24.54	8.66	340	0.67
15	24.57	8.67	340	0.60

PX-22 17 Sept 52		1500 EST Depth 17'	Weather 01 Wind 0 Air 27.8°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	25.18	9.01	268	0.23
5	24.90	9.30	291	0.22
10	24.69	9.41	018	0.12
15	24.63	9.53	333	0.23

PX-26 15 Sept 52		1555 EST Depth 17'	Weather 03 Wind SW-1 Air 27.2°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	25.42	5.57	182	0.63
5	25.50	6.01	--	--
10	25.47	6.42	--	--
13	25.46	6.45	--	--

PX-26 15 Sept 52		1900 EST Depth 13'	Weather 03 Wind SW-1 Air 25.6°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.95	3.98	190	1.57
5	25.03	4.16	193	1.29
10	25.08	4.30	191	1.01
13	25.09	4.34	183	0.77

PX-26 15 Sept 52		1704 EST Depth 13'	Weather 03 Wind SW-1 Air 26.7°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	25.30	5.17	200	1.25
5	25.42	5.68	196	1.05
10	25.43	6.10	197	0.87
14	25.43	6.17	--	--

PX-26 15 Sept 52		2000 EST Depth 13'	Weather 03 Wind SW-1 Air 25.6°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.74	3.30	181	0.70
5	24.80	3.43	181	0.45
10	24.82	3.57	181	0.22
13	24.82	3.59	178	0.26

PX-26 15 Sept 52		1800 EST Depth 15'	Weather 03 Wind SW-1 Air -	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	25.13	4.65	196	1.50
5	25.27	5.06	192	1.39
10	25.33	5.21	197	0.97
13	25.33	5.22	196	0.92

PX-26 15 Sept 52		2100 EST Depth 13'	Weather 03 Wind 0 Air 23.9°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.55	2.66	208	0.15
5	24.74	3.12	0	0.00
10	24.74	3.21	0	0.00
13	24.73	3.22	0	0.00

PX-26 15 Sept 52		2220 EST Depth 15'	Weather 03 Wind NW-1 Air 23.3°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.58	3.20	020	0.59
5	24.78	3.69	019	0.80
10	24.94	4.46	010	0.87
13	24.97	4.63	006	0.74

PX-26 16 Sept 52		0100 EST Depth 13'	Weather 03 Wind 0 Air 22.2°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	25.02	5.39	014	0.77
5	25.10	5.40	016	0.85
10	25.21	5.88	015	0.69
13	25.27	5.91	016	0.52

PX-26 15 Sept 52		2300 EST Depth 14'	Weather 03 Wind NW-1 Air 24.4°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.64	3.83	016	0.90
5	24.83	4.01	016	0.99
10	24.93	4.61	017	0.87
13	24.93	4.64	011	0.69

PX-26 16 Sept 52		0200 EST Depth 12'	Weather 03 Wind SW-1 Air 22.8°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.74	5.42	017	0.23
5	24.85	5.68	015	0.41
10	25.07	5.94	008	0.38
12	25.15	6.14	019	0.29

PX-26 16 Sept 52		0005 EST Depth 13'	Weather 03 Wind NW-1 Air 22.8°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.89	4.87	013	1.06
5	25.11	5.09	013	1.06
10	25.12	5.21	015	0.87
13	25.12	5.24	022	0.82

PX-26 16 Sept 52		0300 EST Depth 13'	Weather 03 Wind 0 Air 21.7°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.79	5.88	161	0.20
5	24.85	5.99	166	0.15
10	25.12	6.27	182	0.11
13	25.17	6.40	185	0.09

PX-26 16 Sept 52		0400 EST Depth 13'	Weather 03 Wind SW-1 Air 21.7°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.66	5.29	189	0.95
5	25.02	5.78	188	0.56
10	25.14	6.12	188	0.52
13	25.14	6.22	189	0.39

PX-26 16 Sept 52		0700 EST Depth 13'	Weather 0 Wind SW-1 Air 18.9°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.18	2.90	196	1.29
5	24.39	3.15	196	1.01
10	24.46	3.33	197	0.92
13	24.47	3.36	--	--

PX-26 16 Sept 52		0500 EST Depth 13'	Weather 03 Wind NNE-1 Air 20.6°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.44	4.61	192	1.17
5	25.00	5.23	191	0.92
10	25.07	5.34	191	0.65
15	25.08	5.37	192	0.65

PX-26 16 Sept 52		0800 EST Depth 12'	Weather 03 Wind NE-1 Air 20.6°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.06	2.14	199	1.14
5	24.08	2.53	193	0.82
10	23.92	2.77	0	0.00
13	23.91	2.83	--	--

PX-26 16 Sept 52		0605 EST Depth 13'	Weather 03 Wind SW-1 Air 18.3°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.33	3.89	189	1.46
5	24.66	4.17	189	1.29
10	24.72	4.32	189	0.97
13	24.73	4.36	189	0.87

PX-26 16 Sept 52		0900 EST Depth 12'	Weather 03 Wind - Air 23.3°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.49	1.67	203	0.70
5	24.29	2.01	203	0.50
10	24.25	2.27	0	0.00

PX-26 16 Sept 52		1000 EST Depth 12'	Weather 01 Wind 0 Air 31.1°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.67	1.46	0	0.00
5	24.29	1.73	0	0.00
10	24.31	1.94	0	0.00
12	24.45	2.14	--	--

PX-26 16 Sept 52		1300 EST Depth 13'	Weather 01 Wind NW-1 Air 28.9°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	--	--	021	0.77
5	--	--	017	0.77
10	--	--	016	0.65
14	--	--	013	0.50

PX-26 16 Sept 52		1100 EST Depth 14'	Weather 01 Wind NW-3 Air 32.2°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	--	--	--	--
5	--	--	008	0.82
10	--	--	007	0.77
14	--	--	017	0.77

PX-26 16 Sept 52		1400 EST Depth 13'	Weather 01 Wind W-1 Air 28.3°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	--	--	327	0.34
5	--	--	020	0.39
10	--	--	004	0.39
13	--	--	011	0.34

PX-26 16 Sept 52		1200 EST Depth 13'	Weather 01 Wind W-1 Air 29.4°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	--	--	017	1.05
5	--	--	011	0.92
10	--	--	011	0.82
13	--	--	005	0.65

PX-26 16 Sept 52		1500 EST Depth 13'	Weather 01 Wind SW-2 Air 33.3°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	--	--	0	0.00
5	--	--	0	0.00
10	--	--	0	0.00
13	--	--	0	0.00

PX-29 15 Sept 52		1604 EST Depth 27'	Weather 03 Wind SSW-1 Air 26.7°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.64	2.20	188	0.97
5	24.81	2.94	190	0.91
10	25.03	3.68	185	0.81
15	25.04	3.73	185	0.78
20	25.03	3.75	181	0.64
23	25.07	3.87	--	--
25	--	--	181	0.45

PX-29 15 Sept 52		1905 EST Depth 26'	Weather 03 Wind SSW-1 Air 24.4°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.23	1.01	195	1.22
5	24.24	1.03	198	1.14
10	24.24	1.05	202	1.10
15	24.26	1.06	193	1.14
20	24.26	1.10	187	0.93
24	24.27	1.16	183	0.77

PX-29 15 Sept 52		1705 EST Depth 27'	Weather 03 Wind SSW-1 Air 25.6°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.55	1.88	205	1.37
5	24.59	2.39	200	1.26
10	24.74	2.92	198	1.22
15	24.82	3.17	198	1.14
20	24.84	3.25	193	0.97
24	24.86	3.32	--	--
25	--	--	205	0.77

PX-29 15 Sept 52		2000 EST Depth 26'	Weather 03 Wind SSW-1 Air 24.4°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.15	0.69	179	0.88
5	24.15	0.69	183	0.77
10	24.16	0.70	182	0.77
15	24.16	0.71	184	0.83
20	24.18	0.72	193	0.70
24	24.18	0.74	191	1.02

PX-29 15 Sept 52		1803 EST Depth 26'	Weather 01 Wind 0 Air 25.0°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.36	1.55	195	1.30
5	24.37	1.60	194	1.26
10	24.38	1.64	194	1.22
15	24.41	1.74	196	1.22
20	24.46	1.92	193	1.13
24	24.50	2.11	188	0.97

PX-29 15 Sept 52		2100 EST Depth 26'	Weather 03 Wind 0 Air 23.9°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.07	0.52	233	0.15
5	24.08	0.53	228	0.15
10	24.10	0.56	217	0.14
15	24.10	0.56	207	0.11
20	24.10	0.60	0	0.00
24	24.11	0.62	0	0.00

PX-29 15 Sept 52		2200 EST Depth 26'	Weather 02 Wind 0 Air 23.3°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.12	0.58	013	0.76
5	24.15	0.61	011	0.67
10	24.16	0.64	011	0.73
15	24.15	0.66	013	0.76
20	24.14	0.67	013	0.70
24	--	--	010	0.53
25	24.12	0.66	--	--

PX-29 16 Sept 52		0100 EST Depth 28'	Weather 00 Wind NE-1 Air 21.4°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.42	2.28	003	0.88
5	24.42	2.30	003	0.93
10	24.41	2.36	003	1.02
15	24.45	2.42	003	1.14
20	24.48	2.40	003	0.93
26	24.49	2.35	360	0.88

PX-29 15 Sept 52		2300 EST Depth 26'	Weather 02 Wind 0 Air 22.2°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.11	0.86	010	1.22
5	24.11	0.86	008	1.18
10	24.11	0.81	010	1.10
15	24.11	0.81	013	1.14
20	24.12	0.83	011	1.10
24	24.11	0.81	--	--
25	--	--	016	0.83

PX-29 16 Sept 52		0200 EST Depth 27'	Weather 00 Wind NE-1 Air 21.1°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.55	2.95	350	0.48
5	24.56	2.98	350	0.53
10	24.67	3.15	354	0.57
15	24.67	3.15	354	0.57
20	24.67	3.15	354	0.45
25	24.67	3.15	354	0.45

PX-29 16 Sept 52		0000 EST Depth 28'	Weather 00 Wind NE-1 Air 22.2°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.15	1.45	006	1.02
5	24.16	1.50	006	1.18
10	24.21	1.60	006	1.30
15	24.23	1.60	006	1.33
20	24.24	1.60	007	1.22
25	24.27	1.59	353	1.02
26	24.27	1.59	--	--

PX-29 16 Sept 52		0300 EST Depth 26'	Weather 00 Wind NE-1 Air 20.0°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.54	3.10	186	0.28
5	24.62	3.23	188	0.21
10	24.64	3.27	188	0.14
15	24.71	3.30	182	0.09
20	24.72	3.33	0	0.00
24	24.74	3.33	--	--
25	--	--	0	0.00

PX-29 16 Sept 52		0400 EST Depth 26'	Weather 00 Wind 0 Air 18.6°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.15	1.99	198	0.93
5	24.29	2.53	188	0.93
10	24.57	2.97	188	0.77
15	24.57	2.98	188	0.77
20	24.58	3.04	188	0.70
24	24.67	3.22	188	0.70

PX-29 16 Sept 52		0700 EST Depth 26'	Weather 00 Wind 0 Air 18.9°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	23.77	0.66	191	1.14
5	23.78	0.66	191	1.14
10	23.78	0.66	186	1.14
15	23.78	0.66	186	1.06
20	23.78	0.66	183	1.02
23	23.80	0.67	188	0.93

PX-29 16 Sept 52		0500 EST Depth 26'	Weather 00 Wind 0 Air 18.1°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.11	1.55	197	1.44
5	24.20	1.70	187	1.30
10	24.23	1.72	185	1.26
15	24.38	1.98	180	1.22
20	24.46	2.12	176	1.22
24	24.56	2.32	--	--
25	--	--	176	1.18

PX-29 16 Sept 52		0800 EST Depth 26'	Weather 00 Wind 0 Air 21.7°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	23.66	0.52	191	0.93
5	23.64	0.52	193	0.88
10	23.64	0.53	191	0.83
15	23.64	0.53	191	0.88
20	23.64	0.53	190	0.88
23	23.63	0.54	192	0.83

PX-29 16 Sept 52		0600 EST Depth 26'	Weather 04 Wind 0 Air 17.8°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.00	1.17	192	1.37
5	24.03	1.17	190	1.10
10	24.03	1.19	188	1.33
15	24.00	1.20	188	1.26
20	24.03	1.20	191	1.26
23	24.04	1.21	188	1.22

PX-29 16 Sept 52		0900 EST Depth 26'	Weather 00 Wind 0 Air 26.7°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	23.67	0.33	196	0.64
5	23.60	0.33	191	0.60
10	23.57	0.34	188	0.60
15	23.57	0.35	185	0.60
20	23.55	0.36	189	0.57
23	23.54	0.37	191	0.53

FX-29 16 Sept 52		1000 EST Depth 25'	Weather 00 Wind 0 Air 29.4°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	23.68	0.28	0	0.00
5	23.66	0.29	0	0.00
10	23.64	0.29	002	0.14
15	23.61	0.30	010	0.14
20	23.57	0.32	0	0.00
22	23.55	0.32	0	0.00

FX-29 16 Sept 52		1300 EST Depth 27'	Weather 00 Wind WSW-1 Air 27.2°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.55	0.76	014	1.14
5	24.38	0.82	014	1.10
10	24.24	0.85	009	1.14
15	24.10	0.83	019	0.93
20	24.07	0.82	005	0.97
24	23.93	0.77	015	1.02

FX-29 16 Sept 52		1100 EST Depth 26'	Weather 00 Wind N-2 Air 25.8°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	25.03	0.31	011	0.88
5	23.55	0.37	013	0.88
10	23.54	0.38	017	0.93
15	23.57	0.39	017	0.93
20	23.55	0.39	015	0.83
23	23.55	0.39	011	0.70

FX-29 16 Sept 52		1400 EST Depth 25'	Weather 00 Wind WSW-1 Air 27.8°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	21.56	1.28	010	0.67
5	21.58	1.33	007	0.64
10	21.56	1.44	002	0.64
15	21.50	1.42	004	0.53
20	21.48	1.41	009	0.53
22	21.46	1.41	--	--
24	--	--	007	0.53

FX-29 16 Sept 52		1200 EST Depth 27'	Weather 00 Wind WSW-1 Air 27.2°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.98	0.57	005	1.37
5	24.68	0.54	001	1.22
10	24.01	0.54	003	1.14
15	23.77	0.55	003	1.18
20	23.68	0.55	003	1.26
24	23.68	0.55	--	--
25	--	--	006	1.06

FX-29 16 Sept 52		1500 EST Depth 19'	Weather 00 Wind WSW-1 Air 27.8°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	21.73	1.19	0	0.00
5	21.63	1.38	187	0.17
10	21.62	1.57	169	0.14
15	21.74	1.67	352	0.14
17	21.75	2.27	--	--

Section B
Chemical Data

Station	Depth (ft)	Date	Time EST	O ₂ (ml/L)	pH	Chlorophyll ($\mu\text{g/L}$)	PO ₄ ($\mu\text{g at/L}$)	Turbidity		
								400m μ	600m μ	800m μ
PX-4	0	19 Sept	0710	4.52	8.07	0.67	0.24	0.100	0.045	0.031
	10		0725	4.15	8.07	1.57	0.26	0.113	0.056	0.041
	20		0748	2.75	7.89	1.84	0.31	0.089	0.042	0.037
	35		0810	1.85	7.66	0.94	0.30	0.098	0.051	0.037
	50		0825	1.44	7.72	0.99	0.31	0.130	0.130	0.065
PX-12	0	18 Sept	0650	5.51	8.31	0.15	0.33	0.137	0.062	0.043
	10		0712	3.79	7.90	0.88	0.36	0.147	0.076	0.056
	20		0730	2.60	7.70	1.20	0.35	0.136	0.071	0.054
	35		0746	1.39	7.70	1.07	0.37	0.130	0.076	0.060
	50		0820	1.35	7.64	0.85	0.40	0.104	0.065	0.048
PX-21	0	17 Sept	0800	4.15	7.48	1.51	0.48	0.441	0.297	0.229
	10		0823	3.93	7.52	1.27	0.55	0.502	0.310	0.235
	20		0844	2.74	7.52	1.06	0.60	0.381	0.237	0.190
	30		0900	2.07	7.50	0.86	0.58	0.444	0.284	0.219
PX-26	0	16 Sept	1120	4.38	7.02	1.59	0.35	0.728	0.396	0.291
	10		1145	4.04	7.29	2.16	0.32	1.051	0.658	0.500

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